>951-104

# CATALOGUE

OF

CHARTS
MAPS
COAST PILOTS
TIDE TABLES

**CURRENT TABLES** 

OF THE

## PHILIPPINE ISLANDS

**AUGUST 1, 1929** 



PUBLISHED BY THE DEPARTMENT OF COMMERCE UNITED STATES COAST AND GEODETIC SURVEY

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#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

### **CATALOGUE**

OF

# CHARTS, MAPS, COAST PILOTS TIDE TABLES CURRENT TABLES

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UNITED STATES

GOVERNMENT PRINTING OFFICE

WASHINGTON: 1929

#### OCT 7 1929

#### EXPLANATION OF DATES ON U. S. COAST AND GEODETIC SURVEY CHARTS

All U. S. Coast and Goodetic Survey charts bear below the border line a note indicating the date on which they were issued from the office in Washington, D. C., or Manila, P. I. The form of this note is—

LIGHTS, BEACONS, BUOYS, AND DANGERS CORRECTED

FOR INFORMATION RECEIVED TO DATE OF ISSUE (date)

It should be understood that no additional information relative to lights, beacons, buoys, and dangers which could be charted had been received previous to this date. It is therefore unnecessary for a mariner to examine his file of Notice to Mariners of date prior to the date of issue of the chart for such corrections.

Other dates which appear on these charts are of less importance to mariners, but are necessary for the identification of the edition and print of the chart, and should be understood by those who use the chart.

A note, known as the authority note, gives the dates (years) of the surveys from which the chart was constructed. This note reads as follows:

AUTHORITIES

SURVEYS (date)

The surveys are by the U. S. Coast and Geodetic Survey unless otherwise stated. When a new chart is issued, the date (month and year) is printed in the publication note.

Published at Manila, P. I. (date)

BY THE U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

This note is always placed just below the border of the chart and as near a central position as possible. The date in this note remains unchanged until an extensive correction is made on the plate from which the chart is printed. The date is then changed and the issue known as a new edition.

When a correction, not of sufficient importance to require a new edition, is made to a chart plate, the year, month, and day are noted below the border in the left-hand corner of the chart, thus: 20-6/30, 7/22, 21-2/3, 5/27.

#### **EXPLANATORY NOTES**

The charts embraced in this catalogue are constructed on different scales in order to adapt them to the different conditions of navigation. The small-scale charts include large areas and are suited to offshore navigation, while those on large scale include small areas and are suited to alongshore navigation.

They are classified as follows:

Sailing Chart.—Scale, 1:1,600,000.

It is intended for the use of the navigator to fix his position as he approaches the coast from the open ocean or when sailing between distant coast ports. It shows the offshore soundings, the principal lights and outer buoys, and such natural landmarks as may be visible at a considerable distance.

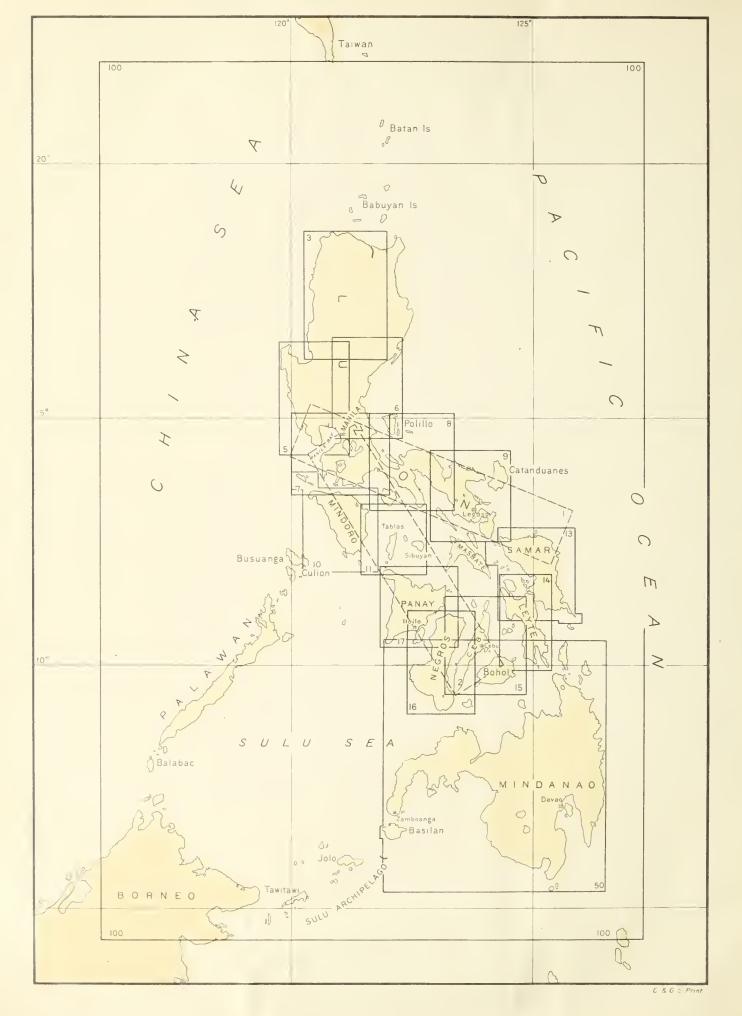
General Charts of the Coast.—Scales from 1:400,000 to 1:800,000. They are intended for coastwise navigation when the vessel's course would mostly be within sight of land, with her position fixed by landmarks, lights, outer buoys, and characteristic soundings.

Coast Charts.—Scales from 1:100,000 to 1:200,000. They are intended for close coastwise navigation when a vessel's course would carry her inside outlying reefs and shoals; also for entering bays and harbors of considerable width and for navigating the large inland waterways.

Harbor Charts.—Scales from 1:5,000 to 1:80,000. They are intended for navigation of harbors and small waterways.

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SALES AGENCIES	
SALES AGENCIES	
Agencies for the sale of the charts, coast pilots, and tide tables of the U. S. Coast and Geodetic Survey.  Philippine Islands:  Cebu—Pacific Commercial Co.	
Iloilo—Hoskyn & Co.	
Manila—*Luzon Stevedoring Co., between Pier 3 and Pier 5, Port Area.  † U. S. Coast and Geodetic Survey Field Station, Intendencia Building.	
Zamboanga—Francisco Barrios & Co.	
Hawaii:	
Honolulu—*Honolulu Paper Co. (Ltd.).  Agents marked with an asterisk (*) also handle Hydrographic Office publications. Agents marked with	h e
dagger (†) also handle Lighthouse Service publications.	1 46
COAST PILOTS	
Philippine Islands, Part 1.—Luzon, Mindoro, and Visayas, 8vo, canvas, 1927, with supplement to Jan. 1, 19	29.
Price, 75 cents.  Philippine Islands, Part 2.—Palawan, Mindanao, and Sulu Archipelago, 8vo, canvas, 1921, with supplementary and 8vo, canvas, 1921, wi	
to Jan. 1, 1929. Price, 75 cents.  TIDE TABLES	
_	ice
[Published annually six months in advance] Pr United States and Foreign Ports\$0.	
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NOTICE TO MARINERS	
Corrections to be applied to charts to keep them up to date and the announcement of new charts, new editions charts, and new publications of the Philippine Islands are included in the Notice to Mariners, published by the U Coast and Geodetic Survey Field Station, Manila, P. I.	s of . S.
TRIANGULATION*	
Philippine Islands, Vol. I.—8vo., paper, pp. 468, 1927\$0. Philippine Islands, Vol. II.—8vo., paper, pp. 476, 1927	50 . 50 . 15
*Obtainable only from the Director of Coast Surveys, Manila, P. I.	



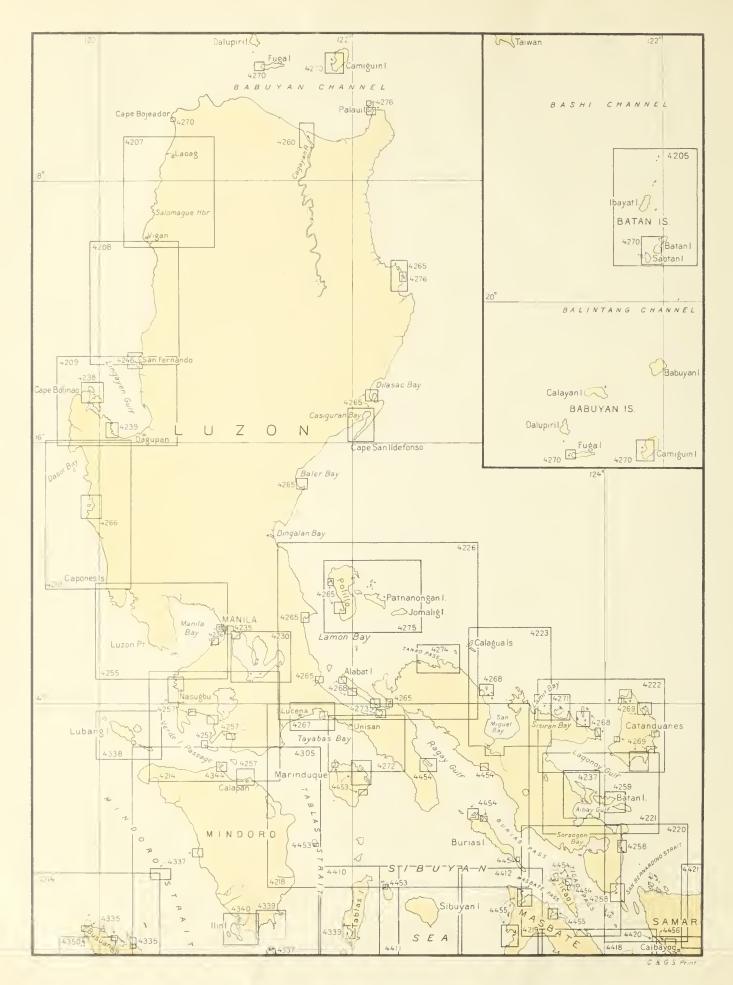
#### TOPOGRAPHIC MAPS OF THE PHILIPPINE ISLANDS

Cat.	Title	Scale	Size	Date	Price	Cat. No.	Title	Scale	Size	Date	Price
3	Northern Luzon-western sheet	1:200,000	Inches 38×56	1922	\$2.00	13	Samar and adjacent islands_	1:200,000	Inches 36×40	1920	\$1.50
5	Central Luzon	1:200,000	32×50	1928	1. 50	14	Leyte	1:200,000	24×44	1914	1,00
6	Central Luzon—eastern sheet.	1:200,000	31×45	1926	1.00	15	Cebu and Bohol	1:200,000	38×44	1915	1. 50
7	Southern Luzon	1:200,000	36×44	1925	1. 50	16	Negros	1:200,000	32×46	1924	1. 50
8	Southern Luzon-central sheet	1:200,000	39×44	1916	1. 50	17 50	Panay Mindanao*		35×38 36×39	1912 1923	1.00 1.50
9	Southern Luzon—southern sheet	1:200,000	36×41	1920	1.50	100	Philippine Islands (in four sheets)†	1:1,000,000	50×78	1927	2,00
10	Mindoro	1:200,000	32×40	1929	1.00			, ,			
11	Islands of Tablas, Romblon, and Sibuyan	1:200,000	30×32	1913	. 50	i.					

#### AIRWAY MAPS

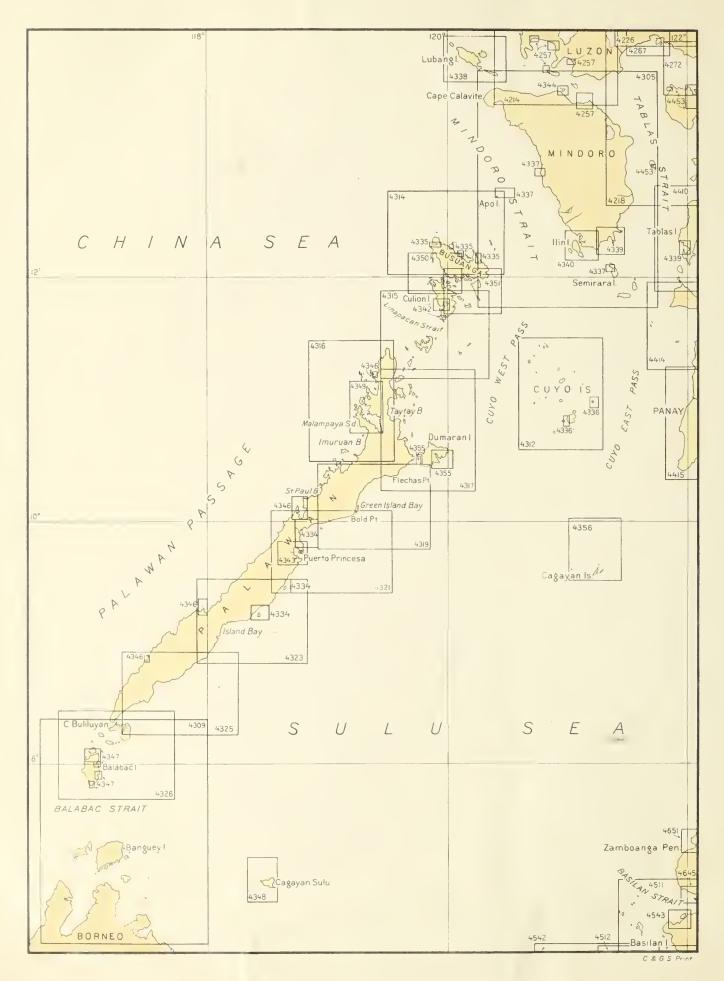
Cat. No.	Title	Scale	Date	Price
1 2	Manila to Legaspi Manila to Cebu (in preparation)	1:500,000 1:500,000	1929	. 50

<sup>\*</sup> Index of names appearing on map No. 50, 8vo., 22 pp. Price, 10 cents. † Can be supplied by the Director of Coast Surveys, Manila, P. I., mounted on muslin, at \$4 per copy.



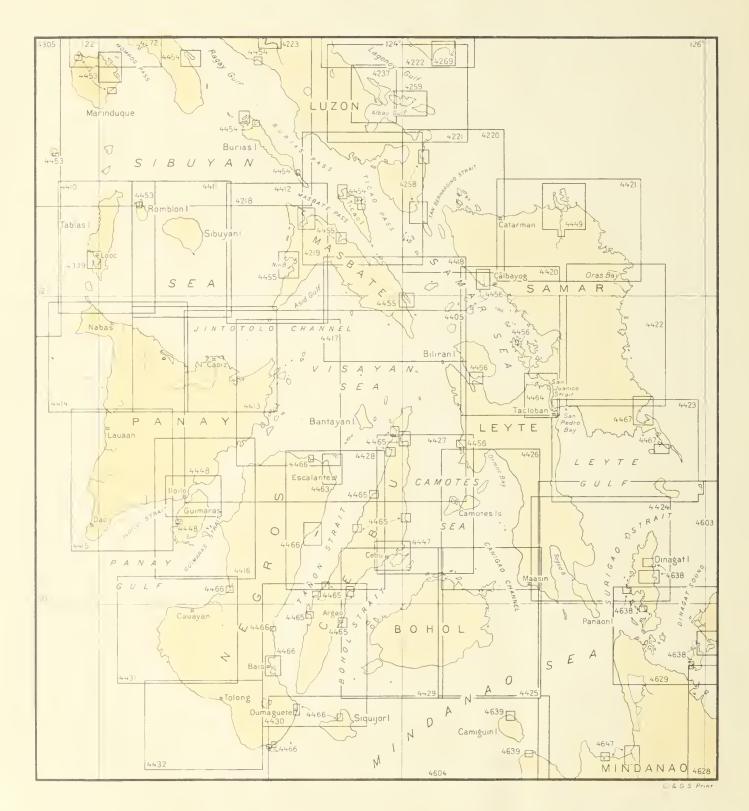
## CHARTS OF THE PHILIPPINE ISLANDS [Numerical arrangement]

				[Num	erical a	rranger	ment				
Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS						COAST AND HARBOR CHARTS—Continued				
4200	Philippine Islands (see p. 15						Matnog Bay and Ticlin Strait;				
400.	for diagram)	1:1,600,000	33×49	1924	\$0.75	4258	Luzon, I	1:30,000	18×26	1916	\$0.25
4205 4207	Batan Islands Laoag to Vigan, Luzon, I	1:100,000 I:100,000	29×41 31×4I	1929 1906	.75	4000	Port Gubat; Luzon, I Rapu Rapu Strait	1:20,000 1:20,000	1		
4207	Port Currimao and Gan Bay.	1:20,000	21 / 41	1500	. 10	4259 4260	Aparri Anchorage and part of	1:20,000	34×36	1924	. 75
1	Salomague Harbor and La-	2.20,000				4200	Cagayan River; Luzon, I	1:25,000	20×33	1915	, 25
	pog Bay	I:20,000				4265	Harbors on east coast of Lu-	, , , , , , , , , , , , , , , , , , , ,			
4208	Solvec Cove to San Fernando;						zon; Luzon, I		25×35	1909	. 50
	Luzon, I	1:100,000	31×42	I925	.75		Port Dimalansan and Port				
	San Esteban and Nalbo Bay	1:10,000 1:20,000					Bicobian	1:60,000			
	Santiago Cove	1:10,000					West Dilasac Bay	1:50,000 1:80,000			
	Darigayos Inlet	1:10,000					Baler Bay	1:50,000			
4209	Lingayen Gulf; Luzon, I	1:100,000	31×42	I924	. 75		Hook Bay	1:20,000			
4210	Capones Islands to Basol Bay;						Polillo Harbor	1:30,000			
	Luzon, I	1:125,000	24×41	I915	. 75		Port Lampon	1:20,000			
	Santa Cruz Inner Harbor Iba Anchorage	1:30,000 1:30,000					Mauban Anchorage Port Apat	1:20,000			
4214	Verde Island Passage	1:125,000	31×37	1915	.75	4266	Port Apat Ports Masinloc and Matalvi	1:20,000			
4218	Ragay Gulf to Tayabas Bay;	11020,000	017(01	-		4200	and Palauig Bay; Luzon, I	1:25,000	29×32	1907	. 50
	Luzon, I	1:200,000	32×45	1922	.75	4267	Luceua Anchorage, Pagbilao	· ·			
	Vinas River	1:50,000					Bay and Port Laguima-				
4219	Passages between Luzon and	1.100.000	251/20	1010	7.5		noc; Luzon, I	1:40,000	25×35	I924	. 50
4220	Masbate and Sorsogon Bay- San Bernardino Strait; Lu-	1:100,000	35×39	1919	.75	4268	Harbors from Alabat to Pitogo Bay		002/20	1909	. 50
1220	zon and Samar, Is	1:100,000	30×41	1917	.75		Port Alabat, southwest		26×30	1909	. 50
	Biri Anchorage	1:20,000					coast; Alabat, I	1:20,000			
	Mauo River	1:10,000					Sangirin Bay, northwest				
4221	Albay Gulf and part of Lago-	1.100.000	00>440	1004	7.5		coast; Alabat, I	1:20,000			
4222	noy Gulf; Luzon, I Lagonoy Gulf to Lamit Bay	1:100,000	29×40	1924	.75		Tabgon Anchorage, east	1.20.000			
4222	and Catanduanes Island;						coast; Luzon, I	I:30, 000			
	Luzon, I	1:100,000	32×43	1924	. 75		east coast; Luzon, I	1:25,000			
4223	San Miguel and Lamit Bays;						Pitogo Bay, east coast;				
	Luzon, I	1:100,000	29×41	1923	. 75		Luzon, I	1:15,000			
4226	Continuation of Bicol River- Lamon Bay and Polillo Is-	1:100,000				4269	Harbors of Catanduanes		24×27	I923	. 25
4220	land	1:200,000	31×35	1928	. 75		Cabugao Bay, south coast Bagamanoc and Anajao,	1:50,000			
4230	Laguna de Bay	1:60,000	29×34	1921	.75		east coast	1:30,000			
	Napindan Channel, Pasig			i			Cobo Bay, west coast				
	River approach	1:10,000		1000			Port Manamrag, west				
4235 4236	Pasig River; Luzon, I	1:10,000	26×42	1922	. 75		coast	1:20,000			
4200	Luzon, I.		21×35	1924	. 50		Pandan Bay, north coast Gigmoto Bay, east coast	1:30,000			
	Manila Harbor	1:10,000					Kalapadan Bay, cast coast	1:30,000			
	Cavite Harbor	1:10,000				4270	Harbors of Batan and Babu-				
4237	Tabaco Bay to Legaspi and						yan Islands and northern				
	western part of Albay Gulf; Luzon, I	1:40,000	32×41	1924	. 75		Luzon Islands in-		. 23×24	1908	. 25
4238	Bolinao Harbor and ap-	1.10,000	32/11	1024	. 10		Part of Batan Islands, in- cluding Basco and Ibana	1:40,000			
	proaches; Luzon, I	1:20,000	35×36	1911	.75		Port San Pio Quinto; Ca-	2, 10, 000		1	
4239	Port Sual to Comas Island;						miguin, I	1:60,000			
10.10	Luzon, I	1:15,000	23×38	I904	. 50		Musa Bay; Babuyan, I	1:30,000			
4246	San Fernando Harbor; Luzon, I	I:15,000	25×28	1924	. 50	4071	Dirique Inlet; Luzon, I Lamit and Sisiran Bays; Lu-	1:10,000			
4255	Manila Bay and Coast of Lu-	1.10,000	20/20	1021	. 00	4271	zon, I	1:30,000	30×41	1924	. 75
	zon to Capones Islands;					4272	Unisan to Mulanay and north-	2.00,000	00/11	1	.,,
	Luzon, I		27×37	1924	.75	1212	ern part of Marinduque;				
4055	Mariveles Harbor	1:20,000					Luzon and Marinduque, Is-	1:70,000	28×38	1910	. 75
4257	Anchorages, vicinity of Verde Island Passage		28 > 26	1922	.75	4273	Silangan Pass and Hondagua				
	Nasugbu and Hamilo Cove;		. 28×36	1922	. 13		Harbor; Luzon, I	1:20,000	I7×32	1913	, 25
	Luzon, I	1:50,000				4274	Tanao Pass, Luzon, I	1:40,000	24×36	1921	. 50
	Balayan; Luzon, I	1:10,000		-		4275	Polillo Islands	1:80,000	32×42	1924	.75
	Taal and Lemery; Luzon, I	1:10,000			1	4276	Harbors on the northeast		002 100	1000	25
	Batangas; Luzon, I	1:15,000					Coast of Luzon		. 22×32	1926	. 25
	Port Maricaban; Marica- ban, I	1:10,000					Engaño Cove	1:10,000			
	Calapan; Mindoro, I						Port San Vicente	1:15, 000			
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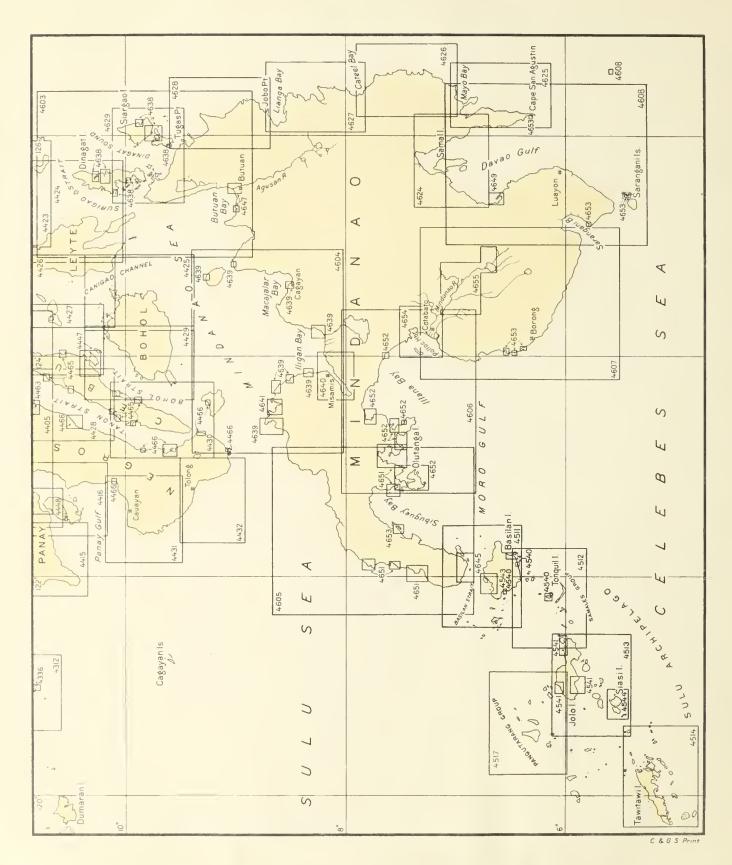


#### Charts of the Philippine Islands—Continued

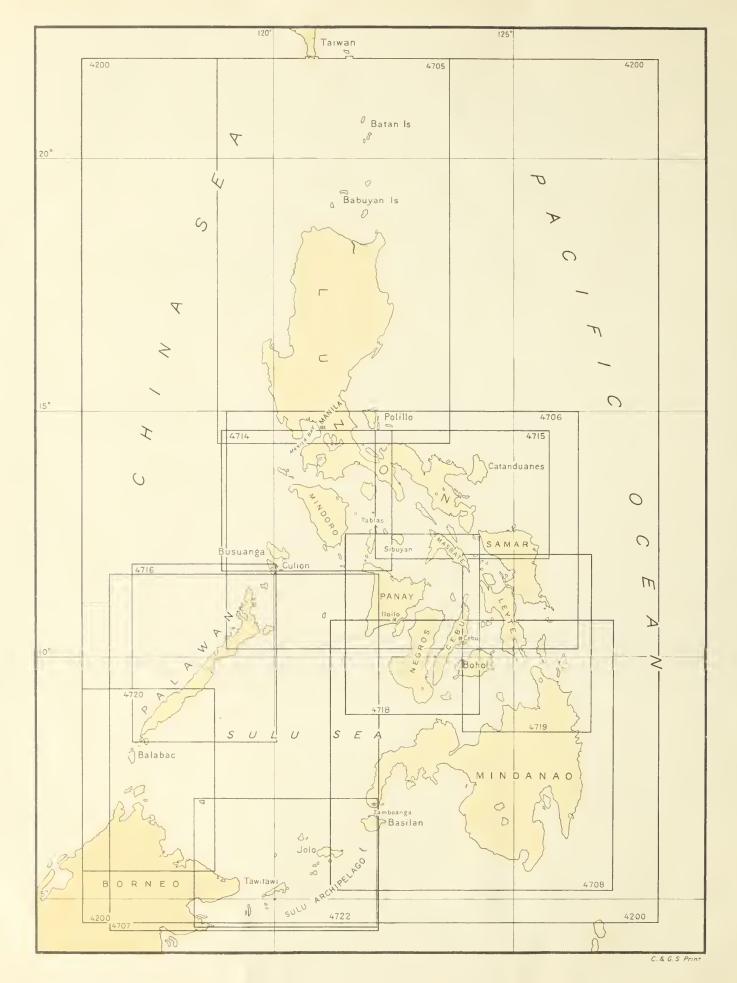
Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Seale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS—Continued						COAST AND HARBOR CHARTS—Continued				
4305	Mindoro and vicinity	1:200,000	33×43	1919	\$0, 75	4339	Anchorages southeastern				
4309	Balabae Strait	1:200,000	31×42	1921	. 75	1000	Mindoro and Tablas				
4312	Cuyo Islauds	1:100,000	31×41	1922	.75		Island		25×37	1912	\$0, 50
4314	Northern part of Busuanga	1:100,000	31×42	1919	. 75		Looe Bay; Tablas, I	1:40,000	20/(01	1012	ψοι σσ
4315	Palawan to Culion Island, in-	11100,000	01/(12	1010			Lagara Cove and Passes	1.40,000			
	cluding Linapaean Strait	1:100,000	32×41	1917	. 75		southward: Mindoro, I	1:20,000			
4316	Northwest Palawan	1:100,000	31×45	1925	. 75	1	Buruncan Point to Pocanil	1120,000			
4317	Northeast coast of Palawan.		047,110	2020			Bay; Mindoro, I	1:40,000			
	Shark Fin Bay to Fleehas					4340	Mangarin and Pandarochan	21 20, 000			
	Point; Palawan, I	1:100,000	31×44	1918	. 75		Bays; Mindoro, I	1:40,000	26×30	1911	. 50
4319	Green Island Bay and vicinity	1:100,000	31×41	1920	. 75	4342	Halsey Harbor and Dicabaito	,			ĺ
	Pascoe Channel, Green, I	1:20,000	 				Anchorage; Culion, I	1:20,000	23×32	1921	. 50
4321	Bold Point to Malanao Island.	1:100,000	31×43	1920	. 75		Dieahaito Anehorage	1:20,000			
4323	Malanao Island to Nariz Point	1;100,000	31×43	1922	. 75	4343	Puerto Princesa; Palawan, I	1:40,000	23×29	1920	. 25
4325	Nariz Point to Bugsuk Island.	1:100,000	31×44	1922	. 75	4344	Port Galera and Varadero			•	
4326	North Balabac Strait and						Bay; Mindoro, I	1:10,000	29×35	1924	. 75
	vicinity	1:100,000	32×42	1921	. 75	4346	Harbors of Palawan Island		26×30	1920	. 50
4334	Anchorages East Coast of						Bacuit, northwest coast	1:15,000			
	Palawan		27×39	1921	. 75		Ulugan Bay, west coast	1:30,000			
	Honda Bay	1:40,000					Malanut and Nakoda Bays,				
	Malanao Anchorage	1:40,000				-	west coast	1:30,000			
	Panacan Anchorage	1:40,000					Culasian Bay, west coast	1:20,000			
4335	Harbors on the north coast of					4347	Harbors of Balabac Island		23×28	1920	. 25
	Busuanga		18×29	1920	. 25		Clarendon Bay, south eoast.	1:15,000			
	Minuit Anchorage	1:20,000				}	Calandorang Bay, east coast	1:15,000			
	Illultuk Bay	1:20,000					Delawan Bay, east coast	1:20,000			
	Port Calton	1:20,000					Port Ciego, north coast	1:40,000			
	Minangas Bay	1:20,000				4348	Cagayan Sulu and adjacent				
4336	Anchorages in Cuyo Islands.		29×34	1918	. 50		islands	1:75,000	19×37	1924	. 50
	Tagauayan Islands	1:10,000					Lapunlapun Anehorage	1:15,000			
	Cuyo Anchorage and Bisu-					4349	Malampaya Sound and ap-				
	cay Channel	1:10,000					proaches; Palawan, I	1:50,000	$26 \times 38$	1926	. 50
4337	Anchorages west and south of					4350	Western entrance to Coron				
	Mindoro; Mindoro, I		28×36	1916	. 75		Bay; Calamian Group	1:50,000	30×39	1919	. 75
	Apo Reef	1:20,000				4351	Coron Bay; Calamian Group.	1:50,000	33×41	1916	.75
	Sablayan Anchorage and	1 00 0				1055	Culion Landing	1:2,000		1000	
	Pandan Bay	1:20,000				4355	Harbors on Dumaran Island	1:20,000	33×38	1920	. 75
4200	Semirara Anchorage	1:20,000	002463	1014		1056	Dumaran Bay	1:20,000		1000	
4338	Lubang Islands	1:60,000	28×38	1914	. 75	4356	Cagayan Islands	1:60,000	33×39	1923	.75
	Golo Pass	1:20,000				1	Cagayan Anchorage	1:10,000	******		



Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS—Continued						COAST AND HARBOR CHARTS—Continued				
4405	Visayan Sca	1:200,000	28×41	1914	\$0.75	4454	Harbors on Burias and Ticao				
4410 4411	Tablas Island and vicinity Sibuyan and Romblon Islands_	1:100, 000 1:100, 000	28×38 29×39	1913 1914	. 75		Islands and Ragay Gulf Port Pusgo, Ragay Gulf;		31×33	1920	\$0.75
4412	Western Masbate	1:100,000	30×40	1917	. 75		Luzon, I	1:30,000			
4413	Northern Panay, Sigat Point to Bulacaue Point	1:100,000	30×42	1919	. 75		Pasacao Ancborage, Ragay Gulf; Luzon I	1:20,000			
	Capiz Bay	1:30, 000					Port Busin, north coast;				
4414	Port Batan Northwestern Panay	1:30, 000 1:100, 000	32×40	1917	. 75		Burias, I	1:20,000			
4415	Southwestern Panay	1:100,000	30×40	1921	.75		coast; Burias, I	1:15,000			
4416	San Jose De Bucnavista Iloilo and Guimaras Straits;	1:10, 000					Port Boca Engaño, soutb- east coast; Burias, I	1:10,000			
	Panay and Guimaras, Is	1:100,000	30×41	1925	. 75		Port San Miguel, nortbwest				
4417	Northeastern Panay and ad- jacent islands	1:100,000	31×42	1911	.75		coast; Ticao, I Port San Jacinto, east coast;	1:20,000			
4418	Southcast Masbate	1:100, 000	30×41	1915	.75		Ticao, I	1:20, 000			
4420	Calbayog to Tacloban; Samar and Leyte, Is	1:100,000	29×42	1924	.75		Taclogan Bay, east coast of Ticao, I	1:20,000			
	Catbalogan Harbor	1:35, 000	23/42	1024		4455	Harbors on the coast of Mas-	1.20,000			
4421	Catarman to Oras Bay; Samar, I	1:100,000	30×42	1908	. 75	4400	bate		28×37	1917	.75
	Helm Harbor and San	1:100,000	30 × 42	1908	. 15		Port Barrera, north coast	1:30,000			
4.400	Ramon Bay	1:25,000					Masbate Harbor, northeast	1:20,000			
4422	Oras Bay to Matarinao Bay; Samar, I	1:100,000	29×41	1908	.75		Port Cataingan, east coast				
	Port Libas	1:30,000				4450	Nin Bay, west coast				
	Port Borongan Llorente and vicinity	1:30, 000 1:30, 000				4456	Harbors of Samar and Leyte Jibatan River, west coast;		. 24×28	1914	. 25
4423	Soutbern part of Samar and			4040			Samar, I	1:50,000			
4424	San Pedro Bay Southeast coast of Leyte and	1:100,000	30×43	1910	. 75		Santo Niño Harbor; Santo Niño, I	1:5,000			
	Dinagat Island	1:100,000	31×41	1913	.75		Parasan Harbor; Daram, I.	1:10,000			
4425	Liloan Bayand Panaon Strait Eastern Bobol and part of	1:10,000					Biliran Strait; Leyte and Biliran, Is	1:20, 000			
	Leyte	1:100,000	31×44	1910	.75		Port Palompon; Leyte, I	1:10, 000			
4426	Southwest coast of Leyte, Ormoc Bay to Maasin	1:100,000	30×41	1915	. 75	4463	Escalante Harbor and vicin-				
	Maasin	1:10,000				4404	ity; Negros, I	1:20, 000	30×41	1924	.75
4427 4428	East coast of Cebu; Cebu, I Northern part of Tañon Strait;	1:100,000	28×40	1910	.75	4464	San Juanico Strait and Jana- batas Channel; Samar				
	Negros and Ccbu, Is	1:100,000	29×40	1911	.75		and Leyte, Is	1:30,000	31×40	1910	. 75
4429 4430	Western Bobol; Bohol, I Tañon Strait, soutbern part;	1:100,000	30×44	1911	. 75		Northern entrance to San Juanico Strait	1:10,000			
	Cebu and Negros, Is	1:100,000	31×42	1911	. 75	4465	Harbors in Cebu		25×32	1912	. 50
4431	Western Negros	1:100, 000 1:10, 000	32×36	1926	.75		Hagnaya Bay	1:30, 000 1:30, 000			
4432	Southwestern Negros	1:100,000	27×35	1913	. 75		Balamban Bay	1:30, 000			
4447	Cebu Harbor and approaches; Cebu, I	1:30, 000	28×35	1925	. 50		Lambusan	1:30,000			
	Cebu Harbor	1:10,000					Dumanjug Bay	1:20, 000 1:20, 000			
4448	Iloilo Strait and Harbor; Panay, I	1:50,000	24×32	1919	. 50		Argao	1:25, 000			
1	Iloilo River	1:10,000					Bogo Bay	1:30, 000 1:15, 000			
4449	Santa Ana Bay Port Palapag and Laoang	1:20,000			•••••		Port Carmen	1:15,000			
1110	Bay; Samar, I	1:40,000	31×33	1924	.75	4466	Barili Bay	1:15,000			
4453	Harbors of Marinduque Is-		29×36	1913	. 75	4400	ity		32×36	1922	. 75
	Port Balanacan, northwest		23/30	1310			Dumaguete; Negros, I	1:10,000			
	coast; Marinduque, I Santa Cruz Harbor and	1:10,000					Himugaan River; Negros, I. Calagcalag Bay; Negros, I.	1:15, 000 1:10, 000			
	Masagasai Bay, northeast						Port Canoan; Siquijor, I	1:5,000			
	coast; Marinduque, I	1:30,000					Port Bombonon; Negros, I. Refugio Pass; Negros, I	1:10,000 1:35,000			
	Torrijos Bay, east coast; Marinduque, I	1:5,000					Bais; Negros, I	1:30,000			
	Port Concepcion; Maestro						Port Siyt; Negros, I	1:10,000			
	de Campo, Is	1:10,000					Himamaylan; Negros, I	1:20,000			



Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS—Continued						COAST AND HARBOR CHARTS—Continued				
4511	Basilan Strait; Mindanao and Basilan, Is	1:100, 000	32×42	1928	\$0.75		Harbors on Dinagat, Siargao and Bucas Islands—Con.				
4512	Samales Group, Sulu Archi- pelago	1:100, 000	31×42	1926	.75		Port Pilar Malinao Inlet	1:30, 000 1:25, 000			
4513	Jolo and Tapul Islands, Sulu Archipelago	1:100,000	33×42	1928	. 75	4639	Anchorages in Iligan Bay and vicinity; Mindanao, I		29×35	1911	\$0. 75
4514	Tawitawi Group, Sulu Archi-						Plaridel and Inamucan Bay. Dapitan and Dipolog	1:25, 000 1:40, 000			
	Port Dos Amigos	1:100, 000 1:15, 000	31×41	1906	. 75		Canauayor Anchorage Jimenez	1:20, 000 1:20, 000			
	Port Bongao Simanale Bay and Channel_	1:25, 000 1:25, 000					Iligan and Overton Anchor- ages and Quinalang Cove_	1:40, 000			
4517 4540	Pangutarang Islands Anchorages Basilan and Sa-	1:100,000	30×40	1929	. 75		Oroquieta	1:20, 000			
4040	males Islands		32×33	1927	. 50		Port Mambajao Cagayan Anchorage	1:10, 000 1:20, 000			
	Port Holland, west coast of Basilan	1:5,000				4640	Port Misamis; Mindanao, I Port Misamis	1:60, 000 1:20, 000	26×33	1908	. 50
	Amoyloi, Anchorage south coast of Basilan	1:20,000				4641	Murcielagos Bay; Mindanao,	1:20,000	30×32	1929	. 50
	Ton Sandungun Channel, Samales Group	1:20,000				4645	Vicinity of Zamboanga Ma- sinloc Anchorage to Cal-				
	Bojelebung and Kauluan Channels, east coast of					}	dera Bay; Mindanao, I	1:30,000	24×37	1925	. 50
	Basilan	1:15,000				4647	Zamboanga water front Agusan River entrance; Min-	1:5,000			
4541	Anchorages in Jolo Island; Jolo, I		31×32	1927	. 50		danao, 1 Nasipit Harbor; Mindanao,	1:20, 000	19×28	1911	. 25
	Jolo Anchorage, north coast_ Dalrymple Harbor and	1:10,000				4649	Malalag Bay, south coast;	1:15, 000			
	Capual Channel, north- east coast	1:20,000				4651	Mindanao, I Harbors on the south and	1:20, 000	23×25	1923	. 25
4740	Maimbung Bay, south coast.	1:40,000				1002	west coasts of Mindanao Dumanquilas Bay; Minda-		28×32	1922	. 50
4543	Isabela Channel and ap- proaches; Basilan, I	1:25, 000	25×33	1925	. 50		nao, I	1:75, 000			
4544 4603	Siasi and Lapac Islands Surigao Strait and vicinity;	1:30,000	31×40	1906	.75		Taba Bay; Mindanao, I Port Santa Maria; Minda-	1:30, 000			
4604	Mindanao and Leyte, Is Iligan Bay and vicinity	1:200, 000 1:200, 000	34×44 31×41	1923 1911	. 75 . 75		nao, I Panabuta <b>n</b> and Piacan	1:30, 000			
4605	Zamboanga Peninsula; Min- danao, west coast	1:200, 000	34×41	1923	.75		Bays; Mindanao, I Sibuco Bay; Mindanao, I	1:40, 000 1:30, 000			
<b>4</b> 606	Port Sibulan to Polloc Har-					4652	Harbors in Illana Bay and	1.00, 000		1912	. 75
4607	bor; Mindanao, I	1:200, 000	28×37	1927	. 75		vicinity; Mindanao, I Port Sibulan	1:60, 000	31×33		
	Mindanao, I Milbuk Harbor	1:200, 000 1:10, 000	31×41	1925	. 75		Port Baras Limbug Cove	1:20, 000 1:15, 000			
4608	Sarangani Bay to Mayo Bay. Palmas Island	1:200, 000 1:20, 000	33×41	1926	. 75		Port Sambulauan Pagadian Bay	1:30, 000 1:50, 000			
4624	Northern part of Davao Gulf;					4653	Maligay Bay Harbors on the south coast of	1:50, 000			
	Mindanao, I Davao	1:100, 000 1:20, 000	32×39	1925	.75		Mindanao, I Lavigan Anchorage; Min-		25×34	1925	. 50
4625	Malipano Anchorage Cape San Augustin to Mayo	1:20, 000					danao, I	1:5, 000			
	Bay; Mindanao, I Balete Bay	1:100, 000 1:20, 000	26×40	1914	. 75		Port Patueo, Sarangani, I Port Bolay, Sarangani, I	1:10, 000 1:5, 000			
4626	Mayo Bay to Cateel Bay;						Port Tumanao, west coast; Sarangani, I	1:15, 000			
4627	Mindanao, I	1:100, 000	30×41	1915	.75		Canalasan Cove; Minda- nao, I	1:20,000			
	Mindanao, I Lamon Anchorage	1:100, 000 1:20, 000	29×40	1915	.75		Basiauang Bay; Mindanao,	1:20,000			
4628	Catarman Anchorage Jobo Point to Tugas Point;	1:20, 000					Port Lebak; Mindanao, I Tuna Bay; Mindanao, I	1:20, 000			
1020	Mindanao, I	1:100, 000	29×40	1913	.75		Port Banga; Mindanao, I	1:20, 000 1:20, 000			
4629	Bitaugan Bay Hinatuan Passage; Minda-	1:30, 000				4654	Mindanao River Delta and Polloc Harbor; Minda-				
	nao, I Surigao	1:100, 000 1:10, 000	30×38	1913	. 75		nao, I Parang and Polloc Anchor-	1:50, 000	34×41	1917	.75
<b>463</b> 8	Harbors on Dinagat, Siargao and Bucas Islands		30×37	1913	.75		agesCotabato entrance, Minda-	1:20, 000			
	Dapa Channel Gaas Bay and Inlet	1:35, 000 1:30, 000				4655	nao River Mindanao River, upper part;	1:20, 000			
	Dinagat	1:20, 000				6601	Mindanao, I	1:50, 000	34×42	1924	. 75
	Sohutan Bay and Inlet San Roque	1:20, 000 1:25, 000					Continuation of Buluan and Alip Rivers	1:50, 000			



#### Charts of the Philippine Islands—Continued

Cat.	Title	Scale approximate	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	SAILING CHART AND GENERAL CHARTS OF THE COAST						SAILING CHART AND GENERAL CHARTS OF THE COAST—Contd.				
4200	Philippine Islands	1:1,600,000	33×49	1924	\$0, 75	4715	Southeastern Luzon and parts				
4705	Manila Bay to Taiwan	. ,	28×44	1926	. 75		of Masbate and Samar	1:400,000	30×40	1917	\$0.75
4706	Philippine Islands, central					4716	Palawan	1:400,000	34×40	1922	. 75
	part	1:800,000	27×40	1922	. 75	4718	Panay, Negros and Cebu, with				
4707	Philippine Islands, southwest-						parts of Bohol and Masbate.	1:400,000	31×41	1917	. 75
	ern part	1:800,000	31×41	1928	. 75	4719	Surigao Strait and Leyte, with				
4708	Philippine Islands, southeast-					i	parts of Samar and Min-				
	ern part	1:800,000	31×33	1926	.75		danao	1:400,000	30×40	1925	. 75
4714	Southwestern Luzon and Min-					4720	Balabac Strait and approaches_	1:400,000	31×41	1924	. 75
	doro	1:395,000	32×39	1920	. 75	4722	Sulu Archipelago	1:400,000	30×42	1929	. 75
h											

#### TABLE OF SCALE EQUIVALENTS

The following table gives the lengths of nautical and statute miles on the several scales named, these scales being the proportionate size of the chart to nature. That is, in the scale 1:1,200 the chart is 1:1,200 part of the actual linear dimensions in nature (or 100 feet to the inch), equal to 60.8 inches to a nautical mile, and 52.8 inches to a statute mile, and so on.

A nautical mile is a minute of an average great circle of the earth, and its length is 6,080 feet, or 1,853.2 meters. A statute mile is 5,280 feet, or 1,609.3 meters.

	Nantic	al mile	Statut	e mile
Scale	Inches	Centimeters	Inches	Centimeters
1:1, 200	60. 803	154. 44	52, 800	134. 11
1:2,400	30. 401	77. 22	26, 400	67. 06
1:4,800	15, 201	38. 61	13. 200	33. 53
1:5,000	14, 593	37. 06	12, 672	32. 19
1:10,000	7, 296	18, 53	6, 336	16.09
1:15,000	4.864	12.36	4.224	10.73
1:20,000	3. 648	9. 27	3. 168	8, 05
1:30,000	2, 432	6.18	2. 112	5.36
1:40,000	1.824	4. 63	1, 584	4. 02
1:50,000	1.459	3. 71	1. 267	3. 22
1:60,000	1.216	3. 09	1, 056	2.68
1:80,000	.912	2.32	. 792	2. 01
1:100,000	. 730	1.85	. 634	1. 61
1:200,000	. 365	. 93	.317	. 80
1;400,000	. 182	. 46	. 158	. 40
1:1,000,000	.073	.18	. 063	.16
1:1, 200, 000	. 061	.15	. 053	. 13

1 meter=39.37 inches; 1 centimeter=0.3937 inch; 1 inch=2.54 centimeters.





